

Sivakumar Pandian

List of Publications by Year in descending order

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Version: 2024-02-01

69
papers

1,910
citations

236925

25
h-index

289244

40
g-index

70
all docs

70
docs citations

70
times ranked

2057
citing authors

#	ARTICLE	IF	CITATIONS
1	Photo-triggered antibacterial and anticancer activities of zinc oxide nanoparticles. Journal of Materials Chemistry B, 2018, 6, 4852-4871.	5.8	118
2	Bio-diesel production by alkali catalyzed transesterification of dairy waste scum. Fuel, 2011, 90, 147-151.	6.4	101
3	Optimization and kinetic studies on biodiesel production from underutilized Ceiba Pentandra oil. Fuel, 2013, 103, 693-698.	6.4	101
4	Production of biodiesel from mixed waste vegetable oil using an aluminium hydrogen sulphate as a heterogeneous acid catalyst. Bioresource Technology, 2011, 102, 7289-7293.	9.6	80
5	Use of Nanocellulose extracted from grass for adsorption abatement of Ciprofloxacin and Diclofenac removal with phyto, and fish toxicity studies. Environmental Pollution, 2021, 268, 115494.	7.5	75
6	Production of liquid biofuels (biodiesel and bioethanol) from brown marine macroalgae Padina tetraströmatica. Energy Conversion and Management, 2017, 135, 351-361.	9.2	74
7	Engineering properties of concrete with partial utilization of used foundry sand. Waste Management, 2018, 71, 454-460.	7.4	68
8	Fresh, micro- and macrolevel studies of metakaolin blended self-compacting concrete. Applied Clay Science, 2015, 114, 370-374.	5.2	66
9	Production of biodiesel from tannery waste using a stable and recyclable nano-catalyst: An optimization and kinetic study. Fuel, 2020, 260, 116373.	6.4	66
10	Optimization and characterization of biodiesel production from microalgae Botryococcus grown at semi-continuous system. Energy Conversion and Management, 2014, 88, 936-946.	9.2	60
11	Optimization of Extraction Process and Kinetics of <i>Sterculia foetida</i> Seed Oil and Its Process Augmentation for Biodiesel Production. Industrial & Engineering Chemistry Research, 2012, 51, 8992-8998.	3.7	52
12	Flow improvers for assured flow of crude oil in midstream pipeline - A review. Journal of Petroleum Science and Engineering, 2018, 164, 24-30.	4.2	52
13	Synthesis and characterization of ZnS-Ag nanoballs and its application in photocatalytic dye degradation under visible light. Journal of Nanostructure in Chemistry, 2014, 4, 1.	9.1	42
14	Nano-sulfated zirconia catalyzed biodiesel production from tannery waste sheep fat. Environmental Science and Pollution Research, 2020, 27, 20598-20605.	5.3	42
15	Conversion of a low value industrial waste into biodiesel using a catalyst derived from brewery waste: An activation and deactivation kinetic study. Waste Management, 2019, 100, 318-326.	7.4	38
16	An overview on the process intensification of microchannel reactors for biodiesel production. Chemical Engineering and Processing: Process Intensification, 2019, 136, 163-176.	3.6	38
17	Biodiesel Production from Soybean Oil Using Calcium Oxide as a Heterogeneous Catalyst. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2006, 85, 135-141.	0.2	35
18	Overview of fluoride removal from water using separation techniques. Environmental Technology and Innovation, 2021, 21, 101246.	6.1	35

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19	Use of waste foundry sand as a partial replacement to produce green concrete: Mechanical properties, durability attributes and its economical assessment. <i>Environmental Technology and Innovation</i> , 2020, 19, 101022.	6.1	33
20	Production of biodiesel from waste bio-oil through ultrasound assisted transesterification using immobilized lipase. <i>Environmental Technology and Innovation</i> , 2021, 21, 101199.	6.1	33
21	Anaerobic treatment of spoiled milk from milk processing industry for energy recovery – A laboratory to pilot scale study. <i>Fuel</i> , 2012, 96, 482-486.	6.4	32
22	Statistical optimization and kinetic study on biodiesel production from a potential non-edible bio-oil of wild radish. <i>Chemical Engineering Communications</i> , 2019, 206, 909-918.	2.6	32
23	Role of ZSM5 catalyst and char susceptor on the synthesis of chemicals and hydrocarbons from microwave-assisted in-situ catalytic co-pyrolysis of algae and plastic wastes. <i>Renewable Energy</i> , 2022, 181, 990-999.	8.9	32
24	Mass cultivation of microalgae and extraction of total hydrocarbons: A kinetic and thermodynamic study. <i>Fuel</i> , 2014, 119, 308-312.	6.4	28
25	Electromagnetic heating, an eco-friendly method to enhance heavy oil production: A review of recent advancements. <i>Environmental Technology and Innovation</i> , 2020, 20, 101100.	6.1	28
26	Production of biodiesel from dairy wastewater sludge: A laboratory and pilot scale study. <i>Egyptian Journal of Petroleum</i> , 2018, 27, 939-943.	2.6	27
27	Optimization and kinetic studies on biodiesel production from microalgae (<i>Euglena sanguinea</i>) using calcium methoxide as catalyst. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2019, 41, 1497-1507.	2.3	24
28	An efficient approach for rice prediction from authenticated Block chain node using machine learning technique. <i>Environmental Technology and Innovation</i> , 2020, 20, 101064.	6.1	24
29	Biodiesel Production from Tannery Waste using a Nano Catalyst (Ferric-Manganese Doped Sulphated) Tj ETQq1 1 0,784314 r _g BT /Over	2.3	22
30	A review on casing while drilling technology for oil and gas production with well control model and economical analysis. <i>Petroleum</i> , 2019, 5, 1-12.	2.8	22
31	Kinetic and thermodynamic studies on the extraction of bio oil from <i>Chlorella vulgaris</i> and the subsequent biodiesel production. <i>Chemical Engineering Communications</i> , 2019, 206, 409-418.	2.6	21
32	Induction of growth and defense mechanism in rice plants towards fungal pathogen by eco-friendly coelomic fluid of earthworm. <i>Environmental Technology and Innovation</i> , 2020, 19, 101011.	6.1	21
33	Big data analytics in upstream oil and gas industries for sustainable exploration and development: A review. <i>Environmental Technology and Innovation</i> , 2021, 21, 101186.	6.1	21
34	Synthesis of Silver Nanorods from Food Industrial Waste and Their Application in Improving the Keeping Quality of Milk. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 17676-17681.	3.7	20
35	An Eco-Friendly Catalyst Derived From Waste Shell Of <i>Scylla Tranquebarica</i> For Biodiesel Production. <i>International Journal of Green Energy</i> , 2014, 11, 886-897.	3.8	20
36	Bioenergy production and metallic iron (Fe) conversion from <i>Botryococcus</i> sp. cultivated in domestic wastewater: Algal biorefinery concept. <i>Energy Conversion and Management</i> , 2019, 196, 1326-1334.	9.2	20

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37	Studies on Sono-Chemical Biodiesel Production Using Smoke Deposited Nano MgO Catalyst. Bulletin of Chemical Reaction Engineering and Catalysis, 2013, 8, 89-96.	1.1	18
38	Production of biodiesel from high free fatty acid feedstock using heterogeneous acid catalyst derived from palm-fruit-bunch. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2021, 43, 3393-3402.	2.3	18
39	In silico, in vitro screening of antioxidant and anticancer potentials of bioactive secondary metabolites from an endophytic fungus (<i>Curvularia</i> sp.) from <i>Phyllanthus niruri</i> L. Environmental Science and Pollution Research, 2022, 29, 48908-48925.	5.3	18
40	Adsorption and recyclability aspects of humic acid using nano-ZIF-8 adsorbent. Environmental Technology and Innovation, 2020, 19, 100927.	6.1	17
41	Optimization of Biodiesel Synthesis from <i>Calophyllum inophyllum</i> . Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2015, 37, 2601-2608.	2.3	16
42	Enhancing the synergistic interaction of microalgae and bacteria for the reduction of organic compounds in petroleum refinery effluent. Environmental Technology and Innovation, 2020, 19, 100926.	6.1	14
43	A review of different technologies to produce fuel from microalgal feedstock. Environmental Technology and Innovation, 2021, 22, 101389.	6.1	14
44	3-level Box-Behnken optimization of hexavalent chromium reduction by chromate resistant <i>Trichoderma asperellum</i> cells from simulated and industrial effluent. Environmental Technology and Innovation, 2020, 19, 101024.	6.1	13
45	Optimization Studies on Recovery of Metals from Printed Circuit Board Waste. Bioinorganic Chemistry and Applications, 2018, 2018, 1-10.	4.1	12
46	Studies on production of biodiesel from <i>Madhuca indica</i> oil using a catalyst derived from cotton stalk. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2021, 43, 3424-3433.	2.3	12
47	Rice husk derived silica nano doped on calcium peroxide for fluoride: Performance, characterization, kinetic, isotherm, and groundwater treatment. Environmental Technology and Innovation, 2020, 19, 100901.	6.1	12
48	Magnetic Nano-catalyzed Synthesis of Biodiesel from Tannery Sludge: Characterization, Optimization and Kinetic Studies. Arabian Journal for Science and Engineering, 2022, 47, 6341-6353.	3.0	12
49	Lipid extraction from natural plant source of <i>Adenanthera pavonina</i> using mixed solvent by superheated extractor. Korean Journal of Chemical Engineering, 2014, 31, 509-513.	2.7	11
50	A study on cashew nut shell liquid as a bio-based flow improver for heavy crude oil. Journal of Petroleum Exploration and Production, 2021, 11, 2287-2297.	2.4	11
51	Isolation, mass cultivation, and biodiesel production potential of marine microalgae identified from Bay of Bengal. Environmental Science and Pollution Research, 2022, 29, 6646-6655.	5.3	10
52	Conventional and in-situ transesterification of <i>Annona squamosa</i> seed oil for biodiesel production: Performance and emission analysis. Environmental Technology and Innovation, 2021, 23, 101593.	6.1	10
53	Spectroscopic investigation on kinetics, thermodynamics and mechanism for electron transfer reaction of iron(III) complex with sulphur centered radical in stimulated biological system. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 124, 315-321.	3.9	9
54	Self-propagating high-temperature synthesized ceramic materials for oil and gas wells: application and the challenges. Arabian Journal of Geosciences, 2019, 12, 1.	1.3	8

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55	Conversion of bio-solids (scum) from tannery effluent treatment plant into biodiesel. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2018, 40, 959-967.	2.3	7
56	Investigation of nano catalyst to enhance fuel quality in waste tyre pyrolysis. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2022, 44, 1468-1477.	2.3	7
57	Application of heterogeneous acid catalyst derived from biomass for biodiesel process intensification: a comprehensive review. , 2020, , 87-109.		7
58	Coelomic fluid of earthworms extruded by cold stress method has commercially significant compounds and trigger seed germination in <i>Vigna radiata</i> L. Environmental Technology and Innovation, 2020, 19, 100814.	6.1	7
59	Kinetic studies validated by Artificial Neural Network simulation for the removal of dye from simulated waste water by the activated carbon produced from <i>Acalypha indica</i> leaves. Environmental Technology and Innovation, 2021, 21, 101244.	6.1	7
60	Chitin derivatives of NAG and chitosan nanoparticles from marine disposal yards and their use for economically feasible fish feed development. Chemosphere, 2021, 281, 130746.	8.2	7
61	Equilibrium, kinetic and thermodynamic studies for the removal of Reactive Red dye 120 using <i>Hydrilla verticillata</i> biomass: A batch and column study. Environmental Technology and Innovation, 2021, 24, 102009.	6.1	7
62	Role of cytochrome P450 genes of <i>Trichoderma atroviride</i> T23 on the resistance and degradation of dichlorvos. Chemosphere, 2022, 290, 133173.	8.2	6
63	Studies on a Customized Carbon Catalyst in Biodiesel Production from Waste Sunflower Oil. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2013, 35, 595-603.	2.3	5
64	Nanoremediation of dimethomorph in water samples using magnesium aluminate nanoparticles. Environmental Technology and Innovation, 2020, 20, 101176.	6.1	4
65	Batch and column studies on the removal of methyl orange by <i>Acalypha indica</i> biomass using gravitational search algorithm as an optimization tool. , 0, 147, 385-397.		4
66	Sustainable drilling operations by utilizing waste biomass as a lost circulation additive. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-9.	2.3	3
67	Photosynthetic free and immobilized cells of <i>Scenedesmus abundans</i> for desalination of seawater. , 0, 138, 19-26.		1
68	Studies on three-phase three-dimensional hybrid electrochemical reactor for treating textile effluent. , 0, 116, 242-250.		0
69	Hybrid analysis for excessive water production problem. Petroleum Science and Technology, 2022, 40, 1407-1422.	1.5	0